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ALU ZOOM PAR 64 II

Order code: LEDJ114

USER MANUAL

WARNING

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

CAUTION!

Keep this equipment away from rain, moisture and liquids.

SAFETY INSTRUCTIONS

Every person involved with the installation, operation & maintenance of this equipment should:

- Be competent
- Follow the instructions of this manual

CAUTION! TAKE CARE USING THIS EQUIPMENT!
HIGH VOLTAGE-RISK OF ELECTRIC SHOCK!!

Before your initial start-up, please make sure that there is no damage caused during transportation. Should there be any, consult your dealer and do not use the equipment.

To maintain the equipment in good working condition and to ensure safe operation, it is necessary for the user to follow the safety instructions and warning notes written in this manual.

Please note that damages caused by user modifications to this equipment are not subject to warranty.

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorised modification to the equipment.

- Never let the power-cable come into contact with other cables. Handle the power-cable and all mains voltage connections with particular caution!
- Never remove warning or informative labels from the equipment.
- Do not open the equipment and do not modify the equipment.
- Do not connect this equipment to a dimmer-pack.
- Do not switch the equipment on and off in short intervals, as this will reduce the system's life.
- Only use the equipment indoors.
- Do not expose to flammable sources, liquids or gases.
- Always disconnect the power from the mains when equipment is not in use or before cleaning! Only handle the power-cable by the plug. Never pull out the plug by pulling the power-cable.
- Make sure that the available voltage is between 220v/240v.
- Make sure that the power-cable is never crimped or damaged. Check the equipment and the power-cable periodically.
- If the equipment is dropped or damaged, disconnect the mains power supply immediately. Have a qualified engineer inspect the equipment before operating again.
- If the equipment has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation might damage the equipment. Leave the equipment switched off until it has reached room temperature.
- If your product fails to function correctly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Prolight dealer for service.
- Only use fuses of same type and rating.
- Repairs, servicing and power connection must only be carried out by a qualified technician. THIS UNIT CONTAINS NO USER SERVICEABLE PARTS.
- WARRANTY; One year from date of purchase.

OPERATING DETERMINATIONS

If this equipment is operated in any other way, than those described in this manual, the product may suffer damage and the warranty becomes void.

Incorrect operation may lead to danger e.g.: short-circuit, burns, electric shocks, lamp failure etc.

Do not endanger your own safety and the safety of others!
Incorrect installation or use can cause serious damage to people and property.

You should find inside the LEDJ carton the following items**:**

1, Alu Zoom Par 64 Unit 2, Instruction manual

Technical Specifications:

DMX Channels: 4 or 6 selectable
Voltage: AC 240 ~ 50Hz
24 Ultra bright 3W LEDs (R: 8 , G: 8 , B: 8)
Power Consumption: 60W
Beam Angle: 10˚ - 60˚ (adjustable)
Connection: 3-Pin XLR
Built-in microphone
3 push button LED display
Dimensions: 222 x 296 x 325mm
Weight: 4.8Kgs

Operating modes:
1) Static colour mode
2) 3 Colour change mode
3) 7 Colour change mode
4) 3 Colour Fade mode
5) 7 Colour Fade mode
6) 3 Colour Sound Mode
7) 7 Colour Sound mode
8) Manual Zoom mode
9) Sound Active mode
10) Slave mode
11) DMX mode

DMX Channel Summary

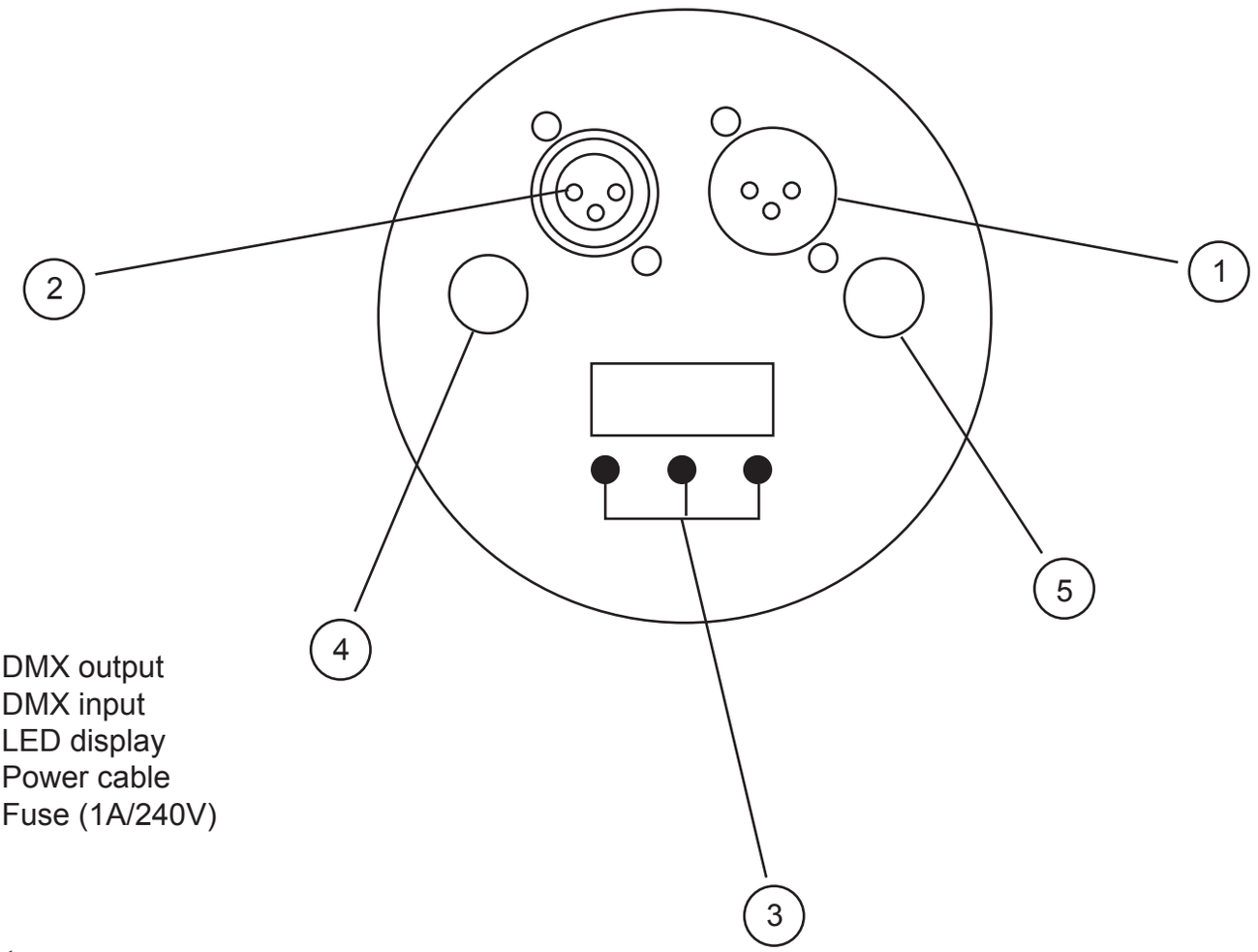
4CH

CHANNEL	VALUE	FUNCTION
1	000-255	RED 0-100%
2	000-255	GREEN 0-100%
3	000-255	BLUE 0-100%
4	000-255	ZOOM ADJUSTMENT

6CH

CHANNEL	VALUE	FUNCTION
1	000-255	RED
2	000-255	GREEN
3	000-255	BLUE
4	000-255	MASTER DIMMER
5	000-255	STROBE (SLOW - FAST)
6	000-255	ZOOM ADJUSTMENT

Overview:



1, DMX output
2, DMX input
3, LED display
4, Power cable
5, Fuse (1A/240V)

Setup

Operating Instructions

The Alu Zoom Par 64 is a DMX-512 controllable, full RGB colour mixing Par Can made up of high efficiency and super bright 3W LED's. There are three colour groups (red, blue and green) whose intensity can be controlled individually allowing the creation of an unlimited range of colours.

The Alu Zoom Par 64 will operate in Stand-alone, Master/Slave, Sound activated and DMX-512 control modes.

Operations:

There are 11 different operation modes to choose from:

1) Static colour mode
2) 3 Colour change mode
3) 7 Colour change mode
4) 3 Colour Fade mode
5) 7 Colour Fade mode
6) 3 Colour Sound Mode
7) 7 Colour Sound mode
8) Manual Zoom
9) Sound Active mode
10) Slave mode
11) DMX mode

Please note, that when the unit is in any of the above modes, to turn the auto zoom in and out function on or off, press the "**MODE"** button to show **"on/off"** on the LED display and use the **"UP"** and **"DOWN"** buttons to cycle between the **ON** and **OFF** options.

1, Static colour mode

Mode button - By pressing the **"MODE"** button under the LED display, the LED display will show **"C.00"**, then you can select one of the 7 static colours using the **"UP"** and **"DOWN"** buttons. The Colours range from 1 - 7 and are listed below:

1, Red 2, Green 3, Blue 4, Purple 5, Yellow 6, Cyan 7, White

2, 3 Colour change mode

Press the **MODE** button until the LED display shows **"P.--"**, then use the **"UP"** and **"DOWN"** buttons to select **"P.03"**. The unit will now run in 3 Colour change mode.

3, 7 Colour change mode

Press the **MODE** button until the LED display shows **"P.--"**, then use the **"UP"** and **"DOWN"** buttons to select **"P.01"**. The unit will now run in 7 Colour change mode.

4, 3 Colour fade mode

Press the **MODE** button until the LED display shows **"P.--"**, then use the **"UP"** and **"DOWN"** buttons to select **"P.04"**. The unit will now run in 3 Colour Fade mode.

5, 7 Colour fade mode

Press the **MODE** button until the LED display shows **"P.--"**, then use the **"UP"** and **"DOWN"** buttons to select **"P.02"**. The unit will now run in 7 Colour Fade mode.

6, 3 Colour sound active mode

Press the **MODE** button until the LED display shows **"P.--"**, then use the **"UP"** and **"DOWN"** buttons to select **"P.06"**. The unit will now run in 3 Colour Sound active mode.

7, 7 Colour sound active mode

Press the **MODE** button until the LED display shows **"P.--"**, then the use the **"UP"** and **"DOWN"** buttons to select **"P.05"**. The unit will now run in 7 Colour Sound active mode.

8, Manual zoom mode

To manually set the required beam angle, pres the **"MODE"** button to show **"o-1"** on LED display. Now use the **"UP"** and **"DOWN"** buttons to select the degree angle from **"o-1 - o-9".** The unit will now stay on that setting until you change the mode.

9, Sound active

Press the **MODE** button until the LED display shows **"S.00"**, the unit will now run in Sound Active mode. Select the sensitivity level from 00 - 99 using the **"UP"** and **"Down"** buttons.
Please note: The higher the value the more sensitive it will be.

10, Slave mode

Link the units together using a 3-pin DMX cable, then press the **MODE** button to select one of the above modes on the master unit. On the Slave units set the DMX address to “001”**.** The Slave units will then follow in sequence with the Master unit.

11, DMX mode

To access the 4 or 6 channel DMX modes, press the **MODE** button until the LED display shows **“4.CH”**, now use the **“UP”** and **“DOWN”** buttons to select between the two modes.

To set the DMX address, press the **MODE** button to show **“001”** on the LED display. Now use the **“UP”** and **“DOWN”** buttons to to set the DMX address from 001-512.

The DMX values and functions are as follows.

4 Channel DMX chart

CHANNEL	VALUE	FUNCTION
1	000-255	RED 0-100%
2	000-255	GREEN 0-100%
3	000-255	BLUE 0-100%
4	000-255	ZOOM ADJUSTMENT

6 Channel DMX chart

CHANNEL	VALUE	FUNCTION
1	000-255	RED
2	000-255	GREEN
3	000-255	BLUE
4	000-255	MASTER DIMMER
5	000-255	STROBE (SLOW - FAST)
6	000-255	ZOOM ADJUSTMENT

DMX-512:

• DMX (Digital Multiplex) is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA “IN” and DATA “OUT” XLR terminals located on all DMX fixtures (most controllers only have a data “out” terminal).

DMX Linking:

• DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned to a DMX address of 1 may be placed anywhere in the DMX line. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

DATA Cable (DMX cable) requirements (for DMX operation):

• The Alu Zoom Par 64 can be controlled via DMX-512 protocol. The DMX address can be set on the back of the fixture. Your fixture and your DMX controller require a standard 3-pin XLR connector for data input/output (figure 1).

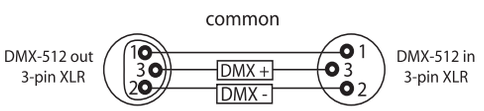
Figure 1

Further DMX cables can be purchased from all good sound and lighting suppliers or Prolight dealers.
Please quote:
CABL10 – 2M
CABL11 – 5M
CABL12 – 10M

Also remember that DMX cable must be daisy chained and cannot be split.

Notice:

• Be sure to follow figures 2 & 3 when making your own cables. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behaviour.



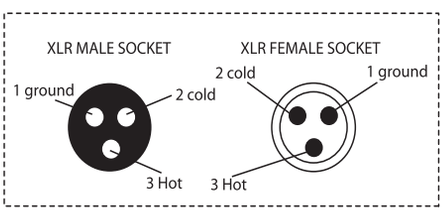


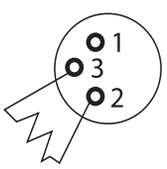
FIGURE 3

XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Negative
Pin 3 = Postive

FIGURE 2

Special Note: Line termination:

• When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour.

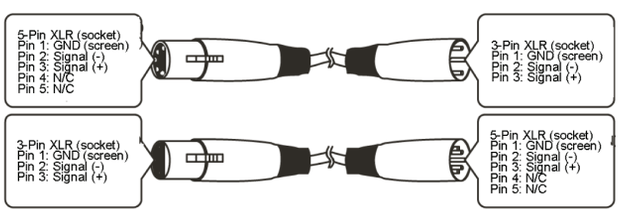


Termination reduces signal transmission problems and interferance. it is always advisable to connect a DMX terminal, (resistance 120 Ohm 1/4 W) between pin 2 (DMX-) and pin 3 (DMX+) of the last fixture.

Using a cable terminator (part number CABL90) will decrease the possibilities of erratic behaviour.

5-Pin XLR DMX Connectors:

• Some manufactures use 5-pin XLR connectors for data transmission in place of 3-pin. 5-Pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used. The Chart below details the correct cable conversion.



Technical Specifications

Weight & Dimensions

- **Length…..222mm**
- **Width.....296mm**
- **Height…….325mm**
- **Weight…….4.8kKgs**

Power

- **AC input…….240V, 50Hz**

Fuse

- **•.....20mm Glass 2A Fast Blow**

Control & Programming

- **Data input…….Locking 3-pin XLR male socket**
- **Data output…….Locking 3-pin XLR female socket**
- **Protocols…….DMX-512 USITT**
- **DMX channels……. .4 or 6**